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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/904,923B

DATE: 01/02/2003

TIME: 09:45:48

Input Set : A:\EP.txt

Output Set: N:\CRF4\01022003\I904923B.raw

3 <110> APPLICANT: Novartis AG  
 5 <120> TITLE OF INVENTION: Modified viral surface proteins for binding to extracellular  
 matrix  
 6 components  
 8 <130> FILE REFERENCE: 271010-463  
 10 <140> CURRENT APPLICATION NUMBER: US 09/904,923B  
 11 <141> CURRENT FILING DATE: 2001-07-13  
 14 <160> NUMBER OF SEQ ID NOS: 3  
 16 <170> SOFTWARE: PatentIn version 3.1  
 W--> 17 <210> SEQ ID NO: 1  
 18 <211> LENGTH: 229  
 19 <212> TYPE: PRT  
 20 <213> ORGANISM: Moloney murine leukemia virus  
 22 <400> SEQUENCE: 1  
 24 Ala Ser Pro Gly Ser Ser Pro His Gln Val Tyr Asn Ile Thr Trp Glu  
 25 1 5 10 15  
 28 Val Thr Asn Gly Asp Arg Glu Thr Val Trp Ala Thr Ser Gly Asn His  
 29 20 25 30  
 32 Pro Leu Trp Thr Trp Trp Pro Asp Leu Thr Pro Asp Leu Cys Met Leu  
 33 35 40 45  
 36 Ala His His Gly Pro Ser Tyr Trp Gly Leu Gly Tyr Gln Ser Pro Phe  
 37 50 55 60  
 40 Ser Ser Pro Pro Gly Pro Pro Cys Cys Ser Gly Gly Ser Ser Pro Gly  
 41 65 70 75 80  
 45 Cys Ser Arg Asp Cys Glu Glu Pro Leu Thr Ser Leu Thr Pro Arg Cys  
 46 85 90 95  
 49 Asn Thr Ala Trp Asn Arg Leu Lys Leu Asp Gln Thr Thr His Lys Ser  
 50 100 105 110  
 53 Asn Glu Gly Phe Tyr Val Cys Pro Gly Pro His Arg Pro Arg Glu Ser  
 54 115 120 125  
 56 Lys Ser Cys Gly Gly Pro Asp Ser Phe Tyr Cys Ala Tyr Trp Gly Cys  
 57 130 135 140  
 59 Glu Thr Thr Gly Arg Ala Tyr Trp Lys Pro Ser Ser Ser Trp Asp Phe  
 60 145 150 155 160  
 62 Ile Thr Val Asn Asn Asn Leu Thr Ser Asp Gln Ala Val Gln Val Cys  
 63 165 170 175  
 65 Lys Asp Asn Lys Trp Cys Asn Pro Leu Val Ile Arg Phe Thr Asp Ala  
 66 180 185 190  
 68 Gly Arg Arg Val Thr Ser Trp Thr Thr Gly His Tyr Trp Gly Leu Arg  
 69 195 200 205  
 71 Leu Tyr Val Ser Gly Gln Asp Pro Gly Leu Thr Phe Gly Ile Arg Leu  
 72 210 215 220  
 74 Arg Tyr Gln Asn Leu  
 75 225

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78 <210> SEQ ID NO: 2
79 <211> LENGTH: 687
80 <212> TYPE: DNA
83 <213> ORGANISM: Moloney murine leukemia virus
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91 cttaccccag atttatgtat gttagccac catggaccat cttattggg gctagaatat      180
93 caatccccctt tttcttctcc cccggggccc ccttggtgct cagggggcag cagcccaggc      240
95 tggtccagag actgcgaaga acctttaacc tccctcacc ctcggtgcaa cactgcctgg      300
97 aacagactca agctagacca gacaactcat aaatcaaag agggatttta tgtttgcccc      360
99 gggccccacc gcccccgaga atccaagtca tgtgggggtc cagactcctt ctactgtgcc      420
101 tattggggct gtgagacaac cggtagagct tactggaagc cctcctcatc atgggatttc      480
103 atcacagtaa acaacaatct cacctctgac caggctgtcc aggtatgcaa agataataag      540
105 tgggtgcaacc ccttagttat tcggtttaca gacgccggga gacgggttac ttcttgacc      600
107 acaggacatt actggggctt acgtttgtat gtctccggac aagatccagg gcttacattt      660
109 gggatccgac tcagatacca aaatcta                                687

112 <210> SEQ ID NO: 3
113 <211> LENGTH: 10
114 <212> TYPE: PRT
117 <213> ORGANISM: Artificial Sequence
119 <220> FEATURE:
120 <223> OTHER INFORMATION: collagen-binding domain of von Willebrand Factor
122 <400> SEQUENCE: 3
124 Trp Arg Glu Pro Ser Phe Met Ala Leu Ser
125 1          5          10
129 #153407v1
130 Page 3

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**VERIFICATION SUMMARY**

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L:17 M:283 W: Missing Blank Line separator, <210> field identifier